## PATENT COOPERATION TREATY

ļ	From	the IN	ITERN	NATIONA	L BUREAU

#### **PCT**

#### **NOTIFICATION OF ELECTION**

(PCT Rule 61.2)

Commissioner
US Department of Commerce
United States Patent and Trademark
Office, PCT
2011 South Clark Place Room
CP2/5C24
Arlington, VA 22202

. Date of mailing (day/month/year)
17 May 2001 (17.05.01)

International application No.
PCT/EP00/08181

International filing date (day/month/year)
22 August 2000 (22.08.00)

Applicant

GODI, Alessandro et al

1.	The designated Office is hereby notified of its election made:
	X in the demand filed with the International Preliminary Examining Authority on:
	12 March 2001 (12.03.01)
	in a notice effecting later election filed with the International Bureau on:
2.	The election X was
-·	was not
	made before the expiration of 19 months from the priority date or, where Rule 32 applies, within the time limit under Rule 32.2(b).

The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland

Authorized officer

Olivia TEFY

Telephone No.: (41-22) 338.83.38

Facsimile No.: (41-22) 740.14.35

## **PATENT COOPERATION TREATY**

## **PCT**

## INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

• •	or agent's file reference	TOO SUBTILED ACTION	See Notification of Transmittal of International TION Preliminary Examination Report (Form PCT/IPEA/416)		
SCB576F					
	l application No.	International filing date (day/month/ye			
PCT/EP0	0/08181	22/08/2000	26/08/1999		
Internationa B32B13/0		or national classification and IPC			
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Applicant					
QUAREL	LA S.P.A. et al.				
d This is	-tamatianal proliminant as	reminetion report has been prepared b	by this International Preliminary Examining Authority		
		tamination report has been prepared bant according to Article 36.	y tris international Preliminary Examining Authority		
		•			
2. This f	REPORT consists of a total	al of 8 sheets, including this cover she	et.		
		, •			
			description, claims and/or drawings which have ntaining rectifications made before this Authority		
		on 607 of the Administrative Instruction			
These	annexes consist of a total	al of 5 sneets.	·		
3. This r	eport contains indications	relating to the following items:			
1	☑ Basis of the report				
	☐ Priority				
113	•	of opinion with regard to novelty, inver	ntive step and industrial applicability		
IV	☐ Lack of unity of inve	ention			
V		nt under Article 35(2) with regard to no nations suporting such statement	ovelty, inventive step or industrial applicability;		
Vi	☐ Certain documents	, ,			
VII	_	he international application			
VIII		ns on the international application			
Date of sub	mission of the demand	Date of co	mpletion of this report		
12/03/20	01	03.12.200	1		
Name and	mailing address of the interna	tional Authorized	1 officer		
	examining authority:	7.44.0112.00	GREAT GOES MOTOR		
<u>"</u>	European Patent Office		(E M) §		

Telephone No. +49 89 2399 8083

Fax: +49 89 2399 - 4465

Tel. +49 89 2399 - 0 Tx: 523656 epmu d

# INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No. PCT/EP00/08181

l.	Basis	of the	report
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1.	the and	receiving Office in	ments of the international a response to an invitation u this report since they do	ınder Article 14 are	referred to in this i	report as "originally filed"
	1,2,	4,6	as originally filed			
	3,34	<b>A</b> ,5	as received on	14/11/2001	with letter of	12/11/2001
	Clai	ms, No.:				
	1-9		as received on	14/11/2001	with letter of	12/11/2001
	Dra	wings, sheets:				
	1/1		as originally filed			
		·				
2.	lang	guage in which the	guage, all the elements mainternational application wavailable or furnished to the	as filed, unless oth	erwise indicated ur	nder this item.
		the language of a	translation furnished for th	ne purposes of the i	nternational searc	h (under Rule 23.1(b)).
		the language of p	ublication of the internation	nal application (und	er Rule 48.3(b)).	
		the language of a 55.2 and/or 55.3).		ne purposes of inter	rnational preliminai	ry examination (under Rule
3.			cleotide and/or amino ac ry examination was carried			
		contained in the ir	nternational application in v	written form.		
		filed together with	the international application	on in computer read	dable form.	
		furnished subseq	uently to this Authority in w	vritten form.		
		furnished subseq	uently to this Authority in c	omputer readable f	orm.	
			at the subsequently furnish application as filed has bee		ce listing does not (	go beyond the disclosure in
		The statement the listing has been for	at the information recorded urnished.	d in computer reada	ble form is identica	al to the written sequence
1	The	amondmente hav	re resulted in the cancellati	on of:	•	

# INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No. PCT/EP00/08181

		the description,	pages:
		the claims,	Nos.:
		the drawings,	sheets:
5	5. 🛛		en established as if (some of) the amendments had not been made, since they have been eyond the disclosure as filed (Rule 70.2(c)):
		(Any replacement report.) see separate she	sheet containing such amendments must be referred to under item 1 and annexed to this
$\epsilon$	s. Ad	ditional observations	, if necessary:
	II. Na	an actablishment of	opinion with regard to novelty, inventive step and industrial applicability
			the claimed invention appears to be novel, to involve an inventive step (to be non-
,			strially applicable have not been examined in respect of:
		the entire internation	onal application.
	Ø	claims Nos. 7.	
t	ecau	ıse:	
			nal application, or the said claims Nos. relate to the following subject matter which does rnational preliminary examination ( <i>specify</i> ):
	⊠		aims or drawings ( <i>indicate particular elements below</i> ) or said claims Nos. 7 are so unclear opinion could be formed ( <i>specify</i> ):  et
	×	the claims, or said could be formed.	claims Nos. 7 are so inadequately supported by the description that no meaningful opinion
		no international se	earch report has been established for the said claims Nos
2	an		onal preliminary examination cannot be carried out due to the failure of the nucleotide uence listing to comply with the standard provided for in Annex C of the Administrative
		the written form ha	as not been furnished or does not comply with the standard.
		the computer read	able form has not been furnished or does not comply with the standard.
,			under Article 35(2) with regard to novelty, inventive step or industrial applicability; itions supporting such statement

# INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No. PCT/EP00/08181

1. Statement

Novelty (N) Yes: Claims 1-6,8-9

No: Claims

Inventive step (IS) Yes: Claims 1-6,8-9

No: Claims

Industrial applicability (IA) Yes: Claims 1-6,8-9

No: Claims

2. Citations and explanations.....see separate sheet

#### VIII. Certain observations on the international application

The following observations on the clarity of the claims, description, and drawings or on the question whether the claims are fully supported by the description, are made: see separate sheet

## INTERNATIONAL PRELIMINARY Inter EXAMINATION REPORT - SEPARATE SHEET

### Re Item I

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## Basis of the report

Originally filed claims and description disclose

- a) that the multilayer slab product compises a support layer,
- b) that the agglomerate contains already the binder (see, for example, claim 1 wherein the stone material agglomerate is defined as a granulate bound by means of a binding agent, and description on p. 3, I. 21-25; p.5, I. 10-12; p. 3, I. 28; p. 4, I. 4-8; p. 6, I. 14-16),
- c) that surface layer contains as binding phase a polyester resin (see p.5, l. 10-12; p. 3, l. 21-25).

Contrary to the originally filed disclosure, present claims 1-3 and 6 define

- a') that the multilayer slab product compises at least one support layer,
- b') that the layers (2) and (3) contain agglomerate and a binding agent,
- c') that the binding phase of the surface layer can be any binding phase. Said amendments a')-c') are not allowed because they go beyond the disclosure as filed.

Additionally, the omission of "under vacuum" to specify the step of vibro-compression in present process claim 6 is also an amendment which is not allowed, see originally filed claim 8 and p. 6, l. 23.

Additionally, present dependent process claim 7 corresponds to originally filed product claim 5. Since the step of immersion of the plurality of supports in the stone material agglomerate is not anymore compatible with the steps of the process according to independent claim 6, claim 7 will not be examined, since its subject-matter goes beyond the disclosure as filed. In the regional phase before the EPO, said claim 7 may be considered only if reinserted as product claim according to originally filed claim 5.

In the present Report, examination will be based on claim 1 as filed with telefax of 20.09.2001, namely claim 1 will read "Multi-layer composite slab product characterised by comprising a sandwich structure with two surface layers (3) of stone material agglomerate in form of granulate bound by means of a binding phase respectively on the lower and upper surfaces of one precast support layer (2) consisting of expanded material agglomerate". Present claims 2-4 will read without any reference to a binding

agent. Claim 5 remains.

Present claim 6 (process) appears to be based on originally filed claim 8 and the example on p. 6. It will read:

- "A process for the preparation of a multi-layer composite slab product according to anyone of the previous claims, comprising the following steps:
- -mixing of a mixture of stone chips in the selected grain size, powder and binder in the typical proportions required for the manufacturing of a stone material agglomerate;
- -distribution of said stone material agglomerate in a mold or on a molding belt to form a first lower layer (3);
- -positioning on said first layer (3) of at least one precast support (2) made of expanded material agglomerate;
- -distribution of a further amount of said mixture on said at least one precast support (2) to form a second upper layer (3);
- -vibro-compression under vacuum, in a single step, of said stone material agglomerate and of said at least one precast support (2);
- -hardening of the mixture via thermal via thermal reaction;
- -surface and perimetral finishing of the mold product."

Claim 8 is in order as long as it depends only on process claim 6. Claim 9 is in order.

#### Re Item III

Non-establishment of opinion with regard to novelty, inventive step and industrial applicability

see item I regarding the objection wrt present claim 7

#### Re Item V

Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

Reference is made to the following documents:

D1: FR-A-2 136 862 (CERIC) 29 December 1972 (1972-12-29)

## **EXAMINATION REPORT - SEPARATE SHEET**

D2: US-A-4 107 378 (BOURGUIGNON GUY CLEMENT ET AL) 15 August 1978 (1978-08-15)

Novelty (Art. 33(2) PCT)

The subject-matter of claim 1 (product) is novel over both D1 and D2. In particular D1 does not define different materials in the support (2) and surface layers (3), and D2 discloses a two-layer composite.

The subject-matter of claim 6 (process) is novel over D2, which defines a different series of process steps.

The subject-matter of claim 9 (use) is novel over both D1 and D2.

Inventive step (Art. 33(3) PCT)

The problem to be solved by the present application is to provide a multilayer composite slab product which is light in weight in comparison with the prior art, see p. 3, I. 11-18.

The problem is solved experimentally by actually providing a layer of an agglomerate of expanded clay with polyester resin as binding agent (the support layer) sandwiched between two surface layers of agglomerated marble with polyester as a binding agent, see p. 3, l. 21-p. 4, l. 10; p. 5, l. 13-17.

Same technical effect (i.e. light weight) is provided by D2, because D2 discloses the use of expanded clay or other expanded material in order to reduce the weight of the plates, see D2: col. 5, I. 40-46. D2 will be then considered as closest prior art document. The difference between D2 and present claim 1 is that D2 discloses a 2layer composite comprising a plate (the surface layer of the present application) and a base layer (the support layer of the present application), and the support (2) in the present application is precast.

This precast support (2) allows that a second upper surface layer (3) is positioned on (2), which cannot be envisaged with the process according to D2. The advantages of the present product are light-weight and the possibility to form a plurality of elements with a sandwich structure, which elements can be separated from each other by cutting to produce single elements, see present p. 4, I. 9-17. Said advantages are not

## INTERNATIONAL PRELIMINARY

International application No. PCT/EP00/08181

**EXAMINATION REPORT - SEPARATE SHEET** 

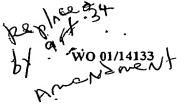
mentioned in any of the available documents. Hence, it appears that an inventive step may be acknowledged for claim 1. Since claim 1 is novel and inventive (under the reservations mentioned in item I) the process of claim 6 (under the reservations mentioned in item I) and the use according to claim 9 are also novel and inventive.

## Re Item VIII

### Certain observations on the international application

It is clear that in this application the term agglomerate would appear to define a graulate bound by a binding agent, see item I, supra. Hence any reference to a mixture of agglomerate and binding agent causes unclarity (Art. 6 PCT).

Upon entering the regional phase before the EPO a) the applicants are kindly requested to provide support in the originally filed disclosure of any amendments they wish to submit, and b) adaptation of the description to the claims may be deferred until an agreement is reached upon a patentable set of claims.



#### **CLAIMS**

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- 1. Multi-layer composite slab product characterised by comprising at least one surface layer (3) consisting of stone material agglomerate in form of granulate bound by means of a binding phase, and one precast support layer (2) consisting of expanded material agglomerate.
- 2. Multi-layer composite product according to claim 1, characterised by comprising a sandwich structure with two surface layers (3) of stone material agglomerate, respectively on the lower and upper surfaces of said intermediate support layer (2).
- 3. Multi-layer composite product according to claim 2, characterised by further comprising a lateral edge (30) consisting of agglomerate of the same stone material of said surface layers (3).
- 4. Multi-layer composite product according to claim 1, characterised by a composite or modular structure, with a plurality of support elements (2) of expanded material agglomerate, coated on at least one surface and separated by an agglomerate (3) of stone material.
- 5. Multi-layer composite product according to claim 4, wherein said supports (2) of expanded material agglomerate are immersed in said stone material agglomerate (3).
- 6. Multi-layer composite product according to any one of the previous claims, wherein said layer of stone material (30) is obtained by vibro-compressure, optionally under vacuum, of marble powder or chips bound with polyester resin.
- 7. Multi-layer composite product according to any one of the previous claims, wherein said precast support layer (2) is obtained by vibro-compressure under vacuum of granules of expanded clay bound with polyester resin.
- 8. A process for the preparation of a product of any one of the previous claims, comprising the following steps:

- positioning of at least one precast support (2) made of expanded material agglomerate in a mold or on a molding belt;
- distribution of a stone material agglomerate (3) on at least one surface of said support (2), together with a binding phase;
- vibro-compressure under vacuum of said stone material agglomerate (3) and of said precast support (2).
  - 9. A process according to claim 8, wherein said at least one precast support (2) is previously obtained by vibro-compressure under vacuum from expanded clay granules bound with polyester resin.
- 10. Use of a product of claims 1-7 for the manufacture of floorings, internal walling and external cladding of residential and public buildings, and of furniture components.

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the technology of the vibro-compressure under vacuum, for example in the more favourable case of use of polyester resin as binder, could comprise:

- 92% by weight of granulates and marble powder
- 8% by weight of polyester resin.

Due to the fact that the granulates or the marble powder have an average specific weight of 2.7 kg/dm<sup>3</sup>, and the polyester resin has an average specific weight of 1.1 kg/dm<sup>3</sup>, the resulting product, for example in the size of 1 m<sup>2</sup> and 3 cm thickness, will have a theoretical specific weight of 2.57 kg/dm<sup>3</sup> (slightly higher than the experimental value which generally ranges between 2.49-2.50 kg/dm<sup>3</sup>) corresponding to a weight of 77.1 kg, which is too high in view of what mentioned.

Object of the invention is mainly to avoid the disadvantage of the high weight of the products made of stone chips, manufactured by the technology of the vibro-compressure under vacuum, making a product noticeably lighter and which maintains substantially the technical and aesthetical properties of the above mentioned products.

This objective is obtained, according to the invention, by means of a product which shows the characteristics of the attached independent claim 1 and by a procedure which presents the characteristics of the attached dependent claim 8.

Advantageous applications of the present invention are shown in the dependent claims.

Mainly, the product according to the invention, has at least a surface layer obtained by vibro-compressure, consisting of an agglomerate, for example obtained from marble powder chips bound by polyester resin, and a precast support, for example obtained again by vibro-compressure under vacuum, consisting of chips of expanded clay bound by polyester resin.

Preferably, the product according to the invention has a sandwich structure, where the expanded clay precast support makes up the intermediate layer, and two surface layers of agglomerate provided, one on the top and one under the



## **PCT**

#### INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

International application No.  PCT/EP 00/ 08181  22/08/2000  26/08/1999  Applicant  QUARELLA S. P. A. et al.  This International Search Report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.  This International Search Report consists of a total of	Applicant's or agent's file re-	FOR FURTHE ACTION	FOR FURTHER see Notification of Transmittal of International Search Report (Form PCT/ISA/220) as well as, where applicable, item 5 below.		
PCT/EP 00/ 08181	SCB576PCT		(day/month/vear)	(Earliest) Priority Date (day/month/year)	
Applicant  QUARELLA S. P. A. et al.  This International Search Report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.  This International Search Report consists of a total of	• •				
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This International Search Report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.  This International Search Report consists of a total of3 sheets.  It is also accompanied by a copy of each prior art document cited in this report.  1. Basis of the report  a. With regard to the language, the international search was carried out on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.    the international search was carried out on the basis of a translation of the international application furnished to this Authority (Rule 23.1(b)).    With regard to any nucleotite and/or amino acid sequence disclosed in the international application, the international application in written form.    filled together with the international application in computer readable form.    furnished subsequently to this Authority in computer readable form.    furnished subsequently to this Authority in computer readable form.    the statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.    the statement that the information recorded in computer readable form is identical to the written sequence listing has furnished.    With regard to the title,	Applicant				
This International Search Report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.  This International Search Report consists of a total of3 sheets.  [X] It is also accompanied by a copy of each prior art document ofted in this report.  1. Basis of the report  a. With regard to the language, the international search was carried out on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.	OHARFILA S.P.A.	et al.			
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furnished subsequently to this Authority in computer readble form.  the statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.  the statement that the information recorded in computer readable form is identical to the written sequence listing has furnished.  Certain claims were found unsearchable (See Box I).  Unity of invention is lacking (see Box II).  With regard to the title,  the text is approved as submitted by the applicant.  X the text has been established by this Authority to read as follows:  MULTI-LAYER SLAB PRODUCT MADE OF STONE GRANULATES AND RELATIVE MANUFACTURI PROCESS.  With regard to the abstract,  the text is approved as submitted by the applicant.  the text has been established, according to Rule 38.2(b), by this Authority as it appears in Box III. The applicant may within one month from the date of mailing of this international search report, submit comments to this Authority.  The figure of the drawings to be published with the abstract is Figure No.  as suggested by the applicant.	filed toge	her with the international application in c	ernational application in computer readable form.		
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because this figure better characterizes the invention.	1		tion.		



International Application No PCT/EP 00/08181

Relevant to daim No.

A. CLASSIFICATION OF SUBJECT MATTER IPC 7 B32B13/00

According to International Patent Classification (IPC) or to both national classification and IPC

#### B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

Category ° Citation of document, with indication, where appropriate, of the relevant passages

2 May 1990 (1990-05-02) claims 1,3,15,16

example 1

IPC 7 B32B E04C C04B

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, PAJ, WPI Data

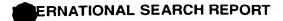
C. DOCUMENTS CONSIDERED TO BE RELEVANT

X	FR 2 136 862 A (CERIC) 29 December 1972 (1972-12-29) claims 1,6-10 page 2, line 6 - line 14 page 3, line 7 - line 25 page 4, line 15 - line 26	1,10
A	US 4 348 452 A (PAOLO PECCENINI ET AL) 7 September 1982 (1982-09-07) claim 1 column 1, line 15 - line 27 column 4, line 34 - line 40	1-10
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Further documents are listed in the continuation of box C.	Patent family members are listed in annex.		
Special categories of cited documents:      A' document defining the general state of the art which is not considered to be of particular relevance      E' earlier document but published on or after the international filing date      L' document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)      O' document referring to an oral disclosure, use, exhibition or other means      P' document published prior to the international filing date but later than the priority date claimed	<ul> <li>'T' later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention</li> <li>'X' document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone</li> <li>'Y' document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.</li> <li>'&amp;' document member of the same patent family</li> </ul>		
Date of the actual completion of the international search	Date of mailing of the international search report		
17 November 2000	05/12/2000		
Name and mailing address of the ISA	Authorized officer		
European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tet. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016	Girard, S		

Form PCT/ISA/210 (second sheet) (July 1992)

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